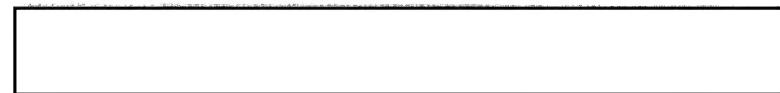


## Basic Imagery Interpretation Report



## NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

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## KOSTROMA ICBM COMPLEX



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DEPLOYED STRATEGIC SSM FACILITIES  
USSR  
APRIL 1969

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COUNTRY

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Kostroma ICBM Complex

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UTM COORDINATES

NA

GEOGRAPHIC COORDINATES

58-00-12N 041-22-25E

MAP REFERENCE

SAC. USATC, Series 200, Sheets M0154-14HL, 5th ed, May 68; M0154-15HL, 3d ed, Jan 66; M0154-19HL, 3 ed, May 66, scale 1:200,000 (SECRET) 25X1

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LATEST IMAGERY USED

NEGATION DATE (if required)

NA

## ABSTRACT

This report updates and supersedes [ ] *Kostroma ICBM Complex, USSR.*<sup>1</sup> The report contains a location map and a table of construction timing and other data on the launch sites and other facilities at the deployed ICBM complex. The information is current through [ ]

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The complex contains seven SS-7 launch sites, 59 SS-11 single-silo launch sites, complex support facilities, and a rail-to-road transfer point.

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## INTRODUCTION

The Kostroma ICBM Complex<sup>1</sup> (Figure 1) is approximately 165 nautical miles (nm) northeast of Moscow. It extends about 45 nm east-west and 60 nm north-south, and contains the launch and support facilities for both the SS-7 and SS-11 missiles. The complex is situated east of the city of Kostroma, in a fairly well-populated area with numerous small towns and villages. The terrain is gently rolling and heavily wooded, with elevations ranging from about 300 to 650 feet. The climate is cold and damp with stable snow cover existing from mid-October to mid-April.

Transportation facilities into the complex are generally better than those at most other ICBM complexes. A single-track rail line runs from Yaroslavl, through Kostroma, to Galich where it joins one of the main east-west rail lines. Yaroslavl is on a north-south rail line that runs directly to Moscow. Spur lines of the Kostroma-Galich rail line serve both the complex support facilities and the rail-to-road transfer point.

The road network connecting Kostroma with the surrounding towns contains several all-weather roads which provide good motor routes to most of the large cities in the European USSR. Portions of the existing highways from Kostroma to Galich, Navoloki, and Krasnoye-na-Volge were utilized as the complex main roads, with access roads constructed to the various sites. The existing roads were improved and in some cases relocated in order to provide easier access to the launch sites. The new sections of road often bypass the towns and villages.

Defenses in the area include four SA-2 and one SA-5 missile installations and a tactical jet fighter unit located at Kostroma Airfield.

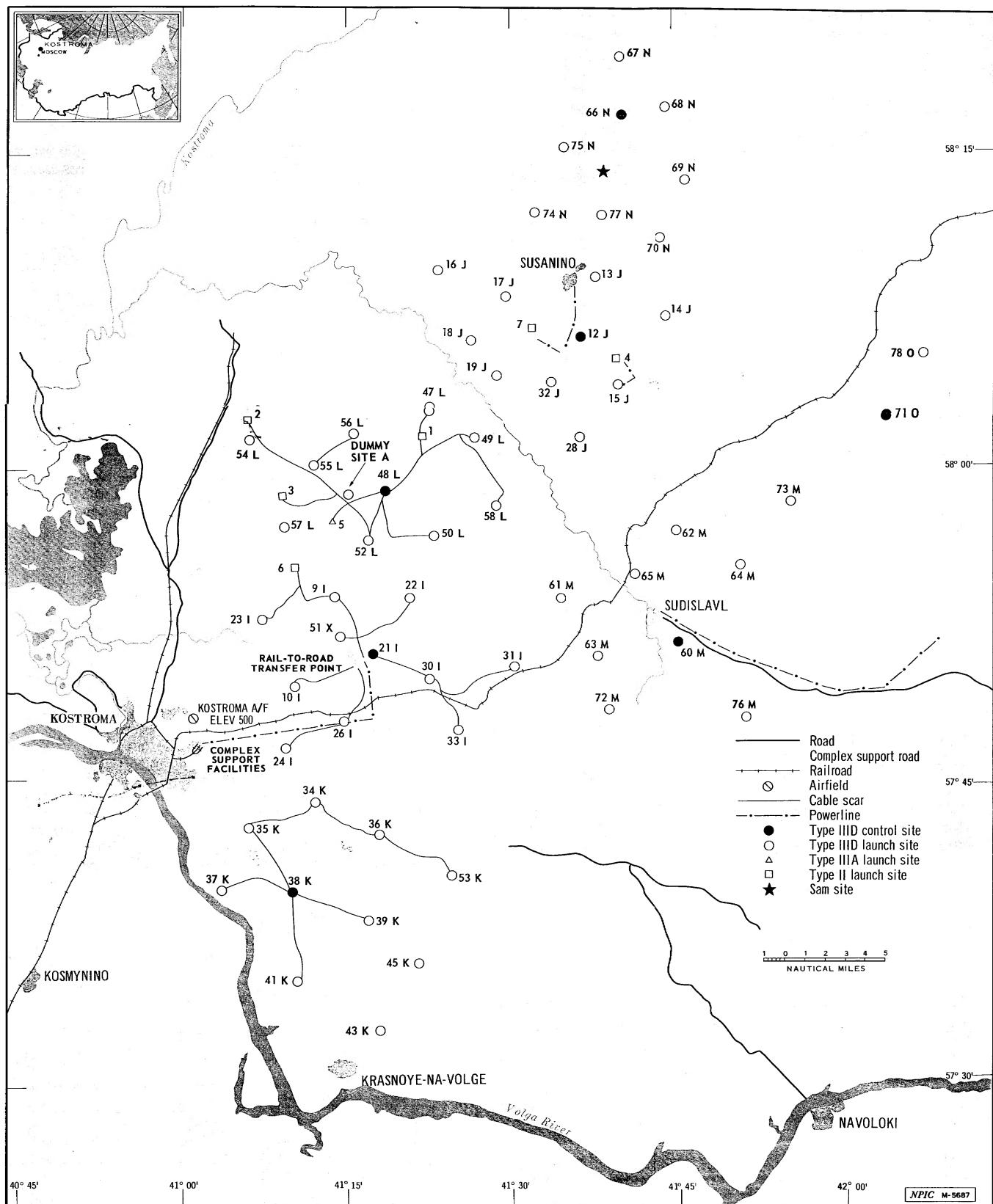
## BASIC DESCRIPTION

The Kostroma ICBM Complex contains seven SS-7 launch sites, seven groups of SS-11 single-silo launch sites, complex support facilities, and a rail-to-road transfer point (Table 1). The seven launch groups, designated I through O, contain 59 type IID single-silo sites. Four of the groups have their full complement of ten launch sites, and the remaining three groups are still incomplete. The complex was first observed in [ ] at which time the complex support

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facilities and Launch Site 1 were present. There was no evidence of the complex in [redacted]. The amount of construction evident when the complex support facilities were first observed indicated that they were probably started in [redacted]. Two Type IIB soft SS-7 launch sites were completed by [redacted] and two additional Type IIB and one Type IID launch sites were completed by [redacted]

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A Type IID site and the only Type IIIA triple silo SS-7 hard site at the complex were completed by [redacted]. Another Type IIIA site was started in [redacted] but it was later abandoned. By [redacted] all SS-7 site construction was completed and the only activity observed for the next [redacted] months was an occasional missile exercise or possible maintenance activity at the launch sites.

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Early in [redacted] construction activity was again observed and confirmed as the deployment of groups I and J for the Type IIID hard single-silo launch sites for the SS-11 missile. In the first half of [redacted] construction of the K and L groups was started. During [redacted] Groups I, J, and K were completed, the M group was observed with [redacted] nine launch sites, and the N group with eight launch sites. In [redacted]

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[redacted] the control site and one possible launch site of Group O were identified. In the same month, the first dummy Type IIID site was observed. This site has been designated Kostroma A and it is located within the L group. The dummy site pattern appeared within less than 51 days, whereas construction of the Type IIID single silo requires a minimum of 13 months.

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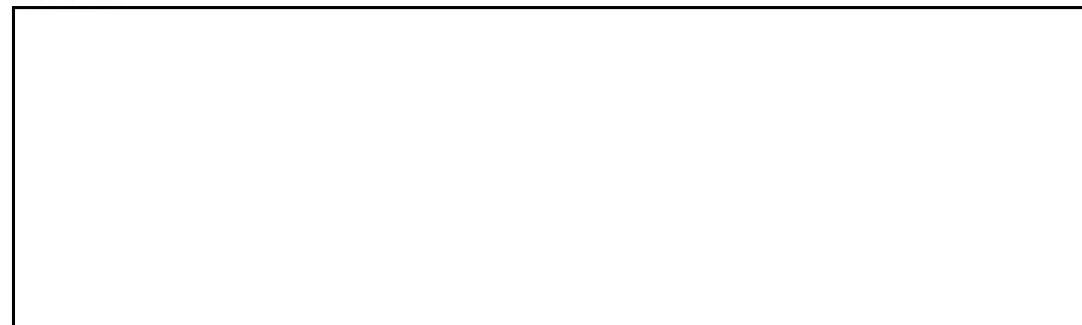
The complex support facilities, on the eastern edge of Kostroma, are served by an excellent road from Kostroma and by several industrial rail spurs from the Kostroma-Galich rail line. They consist of a headquarters command and control facility,<sup>2</sup> a housing area with the necessary supply and services, and a railhead and storage area.

The rail-to-road transfer point,<sup>3</sup> is approximately 9 nm east of the complex support facilities. It is served by a good all-weather road and by a branch of the Kostroma-Galich rail line. This installation provides operational support to the complex and contains SS-11 and SS-77 propellant handling facilities; missile receiving, inspection, and maintenance facilities; a ground support equipment maintenance and storage area; an offloading and warehouse area; and a Type IIID training site in an early stage of construction.

The launch sites in the two latest groups observed probably will not be completed before 1970. There is no evidence to indicate that additional launch groups will be constructed; however, the terrain to the east and southeast of the present sites is suitable and could accommodate two or more launch groups.

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REFERENCES

## IMAGERY



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## REFERENCES (Continued)

## MAPS OR CHARTS

25X1 SAC. US Air Target Chart, Series 200, Sheet M0154-14HIL, 5th ed, May 68, scale 1:200,000 (SECRET/ [REDACTED])

25X1 SAC. US Air Target Chart, Series 200, Sheet M0154-15HIL, 3d ed, Jan 66, scale 1:200,000 (SECRET/ [REDACTED])

25X1 SAC. US Air Target Chart, Series 200, Sheet M0154-19HIL, 3d ed, May 66, scale 1:200,000 (SECRET/ [REDACTED])

## DOCUMENTS

25X1 1. NPIC. [REDACTED] Kostroma ICBM Complex, USSR, Sep 67 (TOP SECRET) [REDACTED] 25X1

25X1 2. NPIC. [REDACTED] Soviet ICBM Headquarters Command and Control Facilities, Dec 68 (TOP SECRET) [REDACTED]

25X1 3. NPIC. [REDACTED] Analysis of Rail-to-Road Transfer Points Associated With the SS-11 ICBM, Jun 68 (TOP SECRET) [REDACTED]

## REQUIREMENT

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